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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,657	10/15/2003	Frampton E. Ellis	081498-0306614	3226
47604 DLA PIPER US	7590 03/01/200 SIIP	EXAMINER		
P. O. BOX 927	1		PRENTY, MARK V	
RESTON, VA	20195		ART UNIT	PAPER NUMBER
			2822	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/01/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/684,657	ELLIS, FRAMPTON E.
Office Action Summary	Examiner	Art Unit
	MARK PRENTY	2822
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 13 No. 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under Example 2.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1,2 and 21-24 is/are pending in the ap 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 21-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original than the correction of the original than the original than the correction of the original than the original	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)		·
I) ☑ Notice of References Cited (PTO-892) Police of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>December 13, 2006</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te

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This Office Action is in response to the amendment filed on November 13, 2006.

Claims 1, 2 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent 6,287,949 to Mori et al. (Mori).

As to independent claim 1, Mori discloses a microchip (see the entire patent, including the Fig. 3A disclosure together with the Figs. 5A-5B disclosure), comprising: a plurality of dies 32, at least two of the dies made by a separate fabrication process (see the Fig. 3A disclosure) and assembled into a package with the separate die sections connected directly; wherein at least one edge of at least one of the dies has any shape or pattern that is not a straight line (see the Figs. 5A-5B disclosure).

Claim 1 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Mori.

As to dependent claim 2, Mori's separate die sections 32 are connected by at least one interconnect that is widened compared to the interconnect lines of the die (see Fig. 5A's interconnect 35).

Claim 2 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Mori.

As to dependent claim 23, Mori's at least one edge has a pattern of straight lines in alternate directions (see Fig. 5B).

Claim 23 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Mori.

Claims 1, 2 and 21-23 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent 6,440,775 to Khoury.

As to independent claim 1, Khoury discloses a microchip (see the entire patent, including the Fig. 3 disclosure), comprising: a plurality of dies 117 and 119, at least two of the dies made by a separate fabrication process and assembled into a package with

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the separate die sections connected directly; wherein at least one edge of at least one of the dies has any shape or pattern that is not a straight line.

Claim 1 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Khoury.

As to dependent claim 2, Khoury's separate die sections are connected by at least one interconnect that is widened compared to the interconnect lines of the die (see column 5, lines 54-58).

Claim 2 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Khoury.

As to dependent claim 21, Khoury's at least one edge has a saw tooth pattern

Claim 21 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Khoury.

As to dependent claim 22, Khoury's saw tooth pattern is of two or more straight lines.

Claim 22 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Khoury.

As to dependent claim 23, Khoury's at least one edge has a pattern of straight lines in alternate directions.

Claim 23 is thus rejected under 35 U.S.C. 102(b) as being anticipated by Khoury.

Claim 24 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over United States Patent 6,440,775 to Khoury.

As to claim 24, Khoury discloses a microchip (see the entire patent, including the Fig. 3 disclosure), comprising: a plurality of dies 117 and 119, at least two of the dies made by a separate fabrication process and assembled into a package with the separate die sections connected directly; wherein at least one edge of at least one of

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the dies has any shape or pattern that is not a straight line, wherein said at least one edge has a pattern of straight lines in alternate directions.

Claim 24 further recites "wherein said at least one edge has a pattern of straight diagonal lines that alternate in direction."

Khoury does not illustrate such diagonal lines but Khoury discloses, "It should be noted that other shapes are possible for interlocking edges... so long as the interlocking edges have shapes that intermesh to allow for one IC module to positively lock/mate with a second IC module to form a structural connection" (column 4, lines 13-18).

Claim 24's pattern is thus either implicitly anticipated by Khoury or at the very least it would have been obvious to one skilled in the art in view of Khoury's disclosure at column 4, lines 13-18.

Claim 24 is thus rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Khoury.

The applicant's arguments are moot in view of the new grounds of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Registered practitioners can telephone the examiner at (571) 272-1843. Any

voicemail message left for the examiner must include the name and registration number

of the registered practitioner calling, and the Application/Control (Serial) Number.

Technology Center 2800's general telephone number is (571) 272-2800.

Mark V. Prenty Primary Examiner

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